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FIG.1

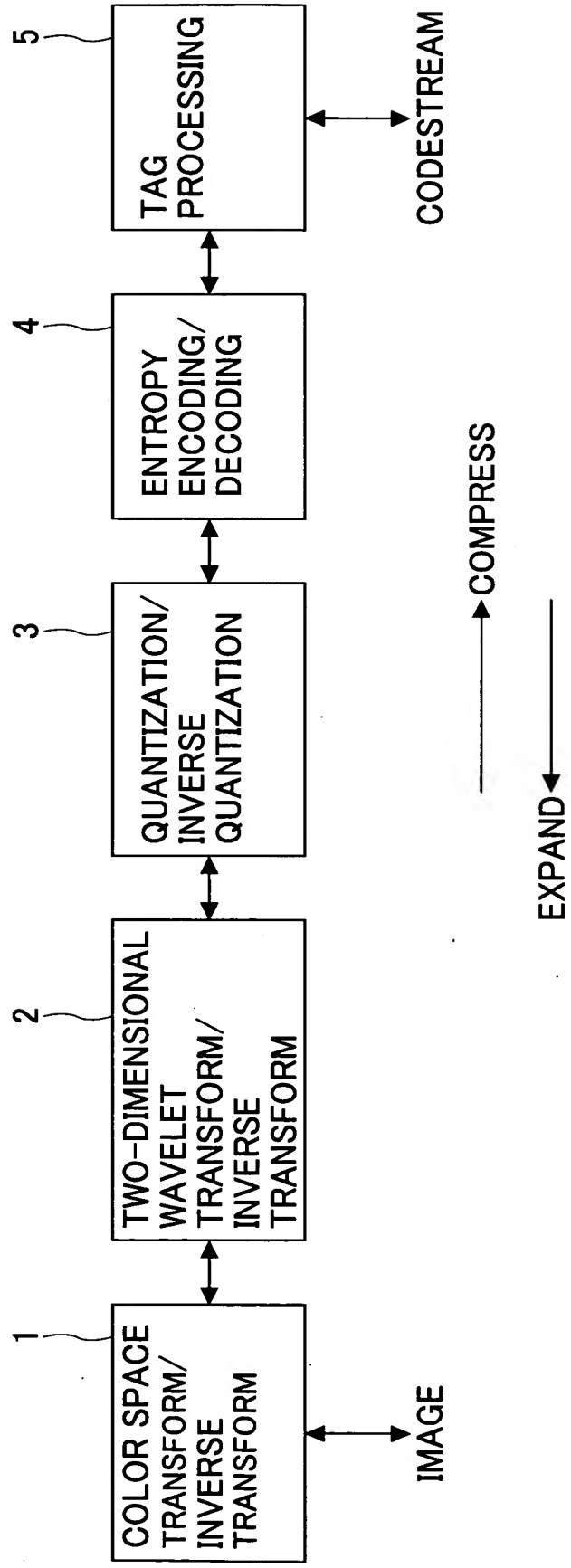


FIG.2

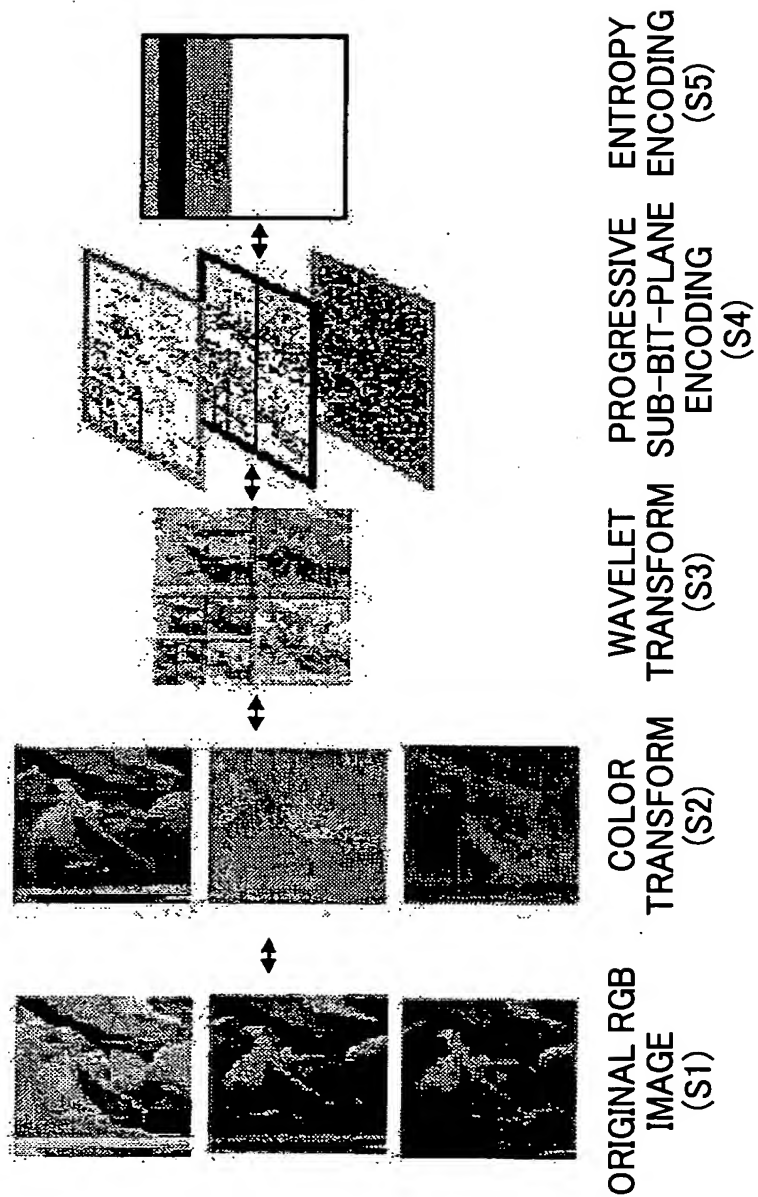


FIG.3

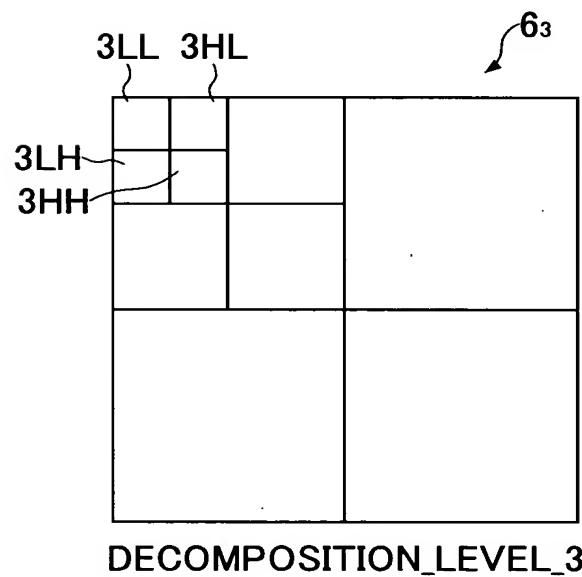
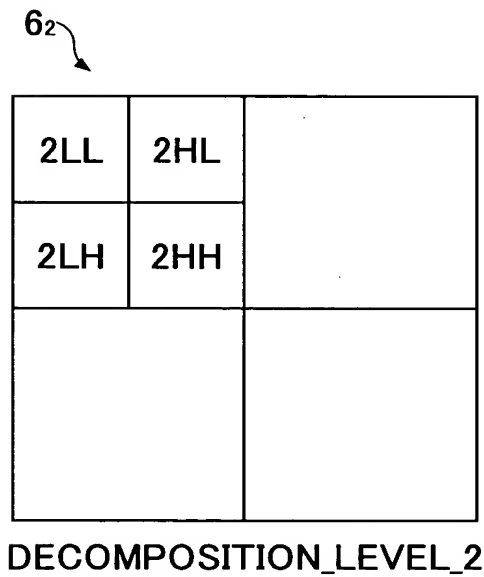
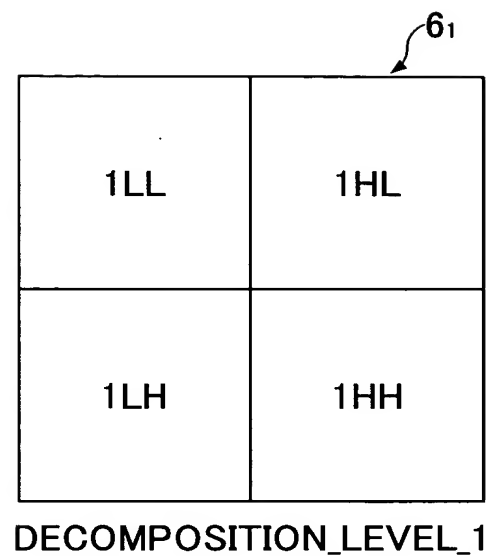
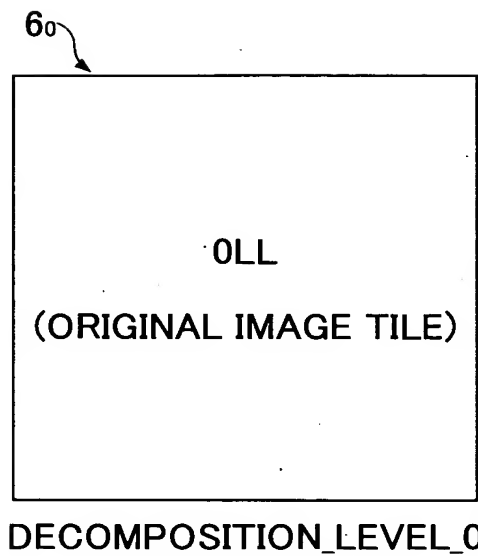


FIG.4

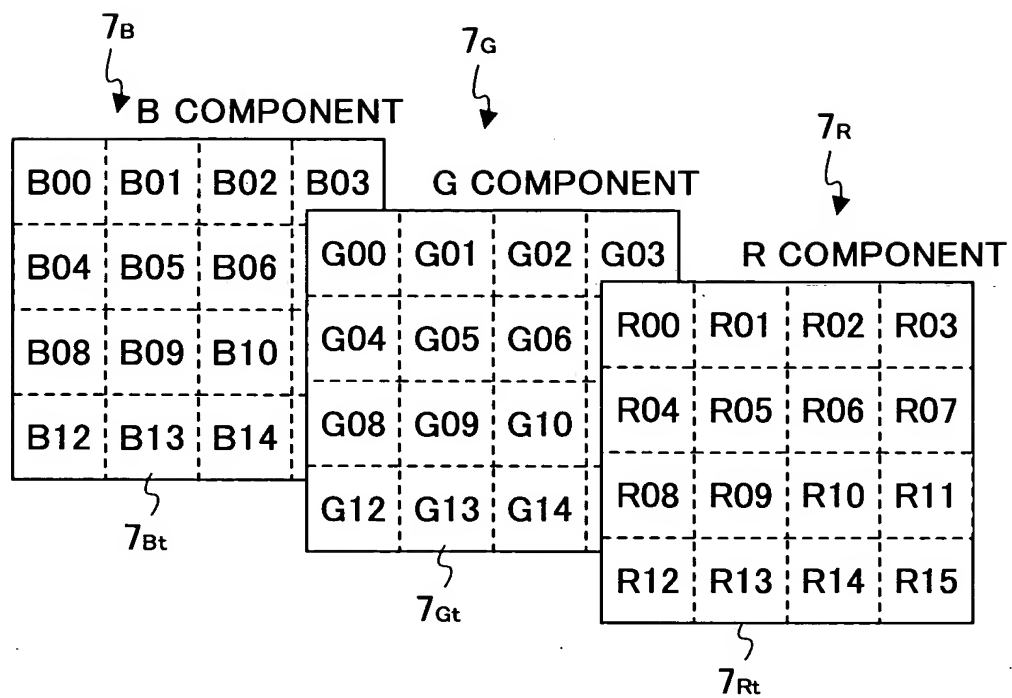


FIG.5

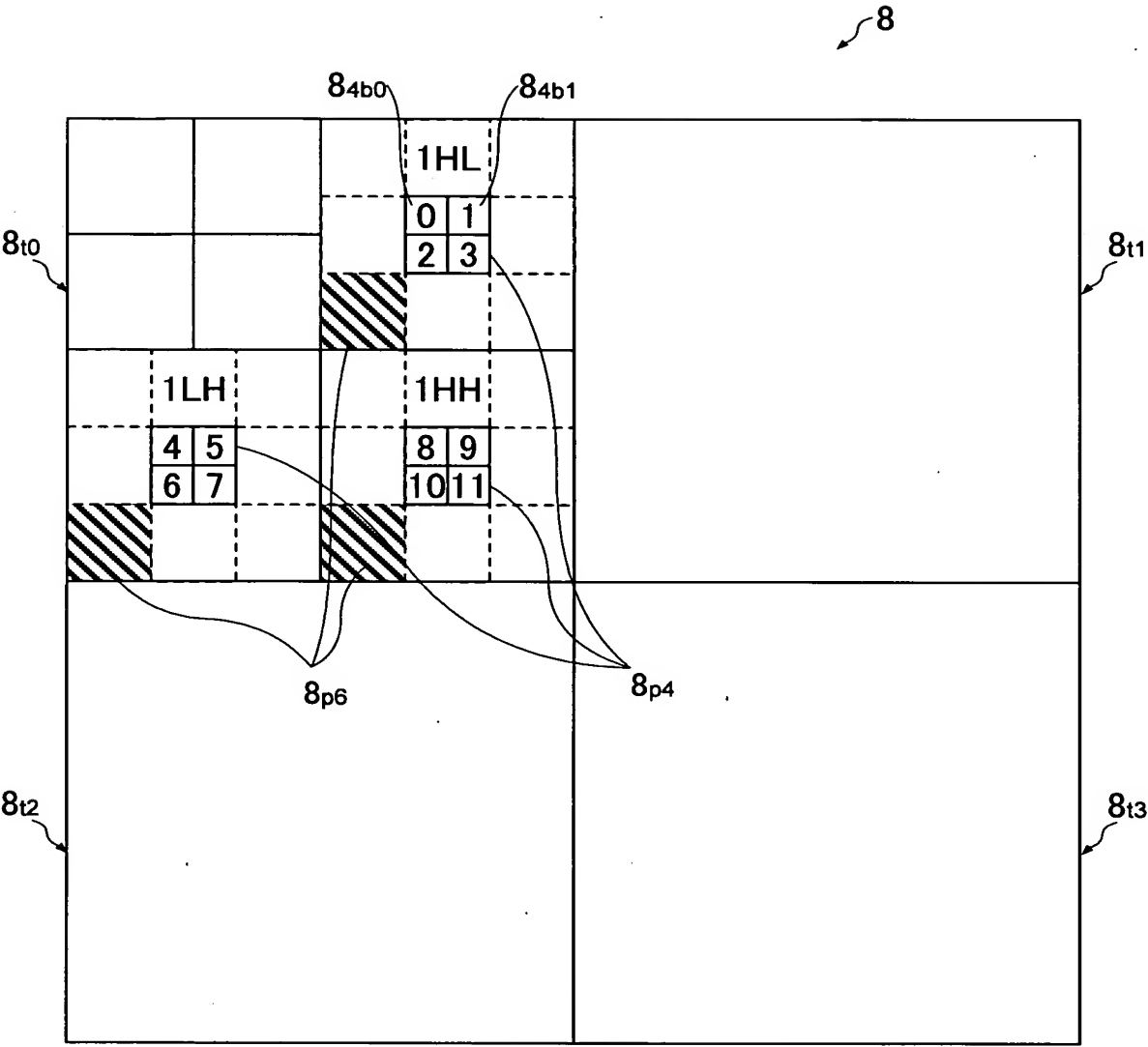


FIG. 6

SUB-BAND		2LL			2HL			2LH			2HH			1HL			1LH			1HH									
PRECINCT No.		0	1	2	3	0	1	2	3	0	1	2	3	4	5	6	7	8	0	1	2	3	4	5	6	7	8		
SUB-BIT PLANE		SUB-BIT PLANE																											
MSB		MSB																											
Code Of Bit 12		Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement	Cleanup	Significant Refinement		
Code Of Bit 11		51	72	93	114	135	156	177	198	215	228	227	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	
Code Of Bit 10		50	71	92	113	134	155	176	197	214	227	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	
Code Of Bit 9		49	70	91	112	133	154	175	196	213	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	
Code Of Bit 8		48	69	90	111	132	153	174	195	212	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	
Code Of Bit 7		47	68	89	110	131	152	173	194	211	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	
Code Of Bit 6		46	67	88	109	130	151	172	193	210	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	
Code Of Bit 5		45	66	87	108	129	150	171	192	209	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	
Code Of Bit 4		44	65	86	107	128	149	170	191	208	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	
Code Of Bit 3		43	64	85	106	127	148	169	190	207	220	219	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	
Code Of Bit 2		42	72	93	114	135	156	177	198	215	228	227	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	
Code Of Bit 1		41	71	92	113	134	155	176	197	214	227	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	
LSB		40	70	91	112	133	154	175	196	213	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	
		39	69	90	111	132	153	174	195	212	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	
		38	68	89	110	131	152	173	194	211	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	
		37	67	88	109	130	151	172	193	210	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	
		36	66	87	108	129	150	171	192	209	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	
		35	65	86	107	128	149	170	191	208	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	
		34	64	85	106	127	148	169	190	207	220	219	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	
		33	72	93	114	135	156	177	198	215	228	227	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	
		32	71	92	113	134	155	176	197	214	227	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	
		31	70	91	112	133	154	175	196	213	226	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	
		30	69	90	111	132	153	174	195	212	225	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	
		29	68	89	110	131	152	173	194	211	224	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	
		28	67	88	109	130	151	172	193	210	223	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	
		27	66	87	108	129	150	171	192	209	222	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	
		26	65	86	107	128	149	170	191	208	221	220	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	
		25	64	85	106	127	148	169	190	207	220	219	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	
		7	15	63	84	105	126	147	168	189	206	219	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	
		6	14	62	83	104	125	146	167	188	205	218	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	
		5	13	61	82	103	124	145	166	187	204	217	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	
		4	12	60	81	102	123	144	165	186	203	216	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	
		7	15	23	59	80	101	122	143	164	185	202	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	
		6	14	22	58	79	100	121	142	163	184	201	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	
		5	13	21	57	78	99	120	141	162	183	200	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	
		4	12	20	56	77	98	119	140	161	182	199	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	
		7	15	63	59	80	101	122	143	164	185	202	215	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	
		6	14	62	58	79	100	121	142	163	184	201	214	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	
		5	13	61	57	78	99	120	141	162	183	200	213	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	
		4	12	20	56	77	98	119	140	161	182	199	212	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	
		3	11	19	27	55	76	97	118	139	160	181	211	210	209	208	207	206	205	204	203	202	201	200	199	198	197	196	
		2	10	18	26	54	75	96	117	138	159	180	210	209	208	207	206	205	204	203	202	201	200	199	198	197	196	195	
		1	9	17	25	53	74	95	116	137	158	179	209	208	207	206	205	204	203	202	201	200	199	198	197	196	195	194	
		0	8	16	24	52	73	94	115	136	157	178	208	207	206	205	204	203	202	201	200	199	198	197	196	195	194	193	

SUB-BAND		PRECINCT No.																											
		2LL				2HL				2LH				2HH				1HL				1LH				1HH			
		0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3
SUB-PLANE	Code Of Bit 12	51	72	93	114	135	156	177	198	215	228	SUB-BIT PLANE	Cleanup	51	72	93	114	135	156	177	198	215	228						
	Code Of Bit 11	50	71	92	113	134	155	176	197	214	227		Cleanup	50	71	92	113	134	155	176	197	214	227						
Code Of Bit 10	49	70	91	112	133	154	175	196	213	226	Code Of Bit 9	Cleanup	49	70	91	112	133	154	175	196	213	226							
	48	69	90	111	132	153	174	195	212	225		Cleanup	48	69	90	111	132	153	174	195	212	225							
Code Of Bit 8	47	68	89	110	131	152	173	194	211	224	Code Of Bit 7	Cleanup	47	68	89	110	131	152	173	194	211	224							
	46	67	88	109	130	151	172	193	210	223		Cleanup	46	67	88	109	130	151	172	193	210	223							
Code Of Bit 6	45	66	87	108	129	150	171	192	209	222	Code Of Bit 5	Cleanup	45	66	87	108	129	150	171	192	209	222							
	44	65	86	107	128	149	170	191	208	221		Cleanup	44	65	86	107	128	149	170	191	208	221							
Code Of Bit 4	43	64	85	106	127	148	169	190	207	220	Code Of Bit 3	Cleanup	43	64	85	106	127	148	169	190	207	220							
	42	72	93	114	135	156	177	198	215	228		Cleanup	42	72	93	114	135	156	177	198	215	228							
Code Of Bit 2	41	71	92	113	134	155	176	197	214	227	Code Of Bit 1	Cleanup	41	71	92	113	134	155	176	197	214	227							
	40	70	91	112	133	154	175	196	213	226		Cleanup	40	70	91	112	133	154	175	196	213	226							
Code Of Bit 0	39	69	90	111	132	153	174	195	212	225		Cleanup	39	69	90	111	132	153	174	195	212	225							
	38	68	89	110	131	152	173	194	211	224		Cleanup	38	68	89	110	131	152	173	194	211	224							
	37	67	88	109	130	151	172	193	210	223		Cleanup	37	67	88	109	130	151	172	193	210	223							
	36	66	87	108	129	150	171	192	209	222		Cleanup	36	66	87	108	129	150	171	192	209	222							
	35	65	86	107	128	149	170	191	208	221		Cleanup	35	65	86	107	128	149	170	191	208	221							
	34	64	85	106	127	148	169	190	207	220		Cleanup	34	64	85	106	127	148	169	190	207	220							
	33	72	93	114	135	156	177	198	215	228		Cleanup	33	72	93	114	135	156	177	198	215	228							
	32	71	92	113	134	155	176	197	214	227		Cleanup	32	71	92	113	134	155	176	197	214	227							

THUMBMAIL FOR DIGITAL CAMERA
THUMBMAIL FOR IMAGE VIEWER SOFTWARE
2LL THUMBMAIL FOR PORTABLE TEL

Figure 1 shows a cross-section of a 10-layer PCB. The layers are labeled from 0 to 9. Layer 0 is the top layer. Layers 1, 2, 3, 4, 5, 6, 7, 8, and 9 are the bottom layers. The diagram illustrates the relative positions of various components and traces across these layers.

FIG. 8

SUB-BAND		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
2LL	2HL	2LH	2HH	1HL	1LH	1HH	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9			
0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9
SUB-BAND		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
BIT PLANE		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
MSB		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 12		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 11		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 10		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 9		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 8		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 7		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 6		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 5		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 4		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 3		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 2		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
Code Of Bit 1		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	
LSB		PRECINCT No.								SUB-BIT PLANE		SUB-BAND		PRECINCT No.								SUB-BIT PLANE																	

FIG.9

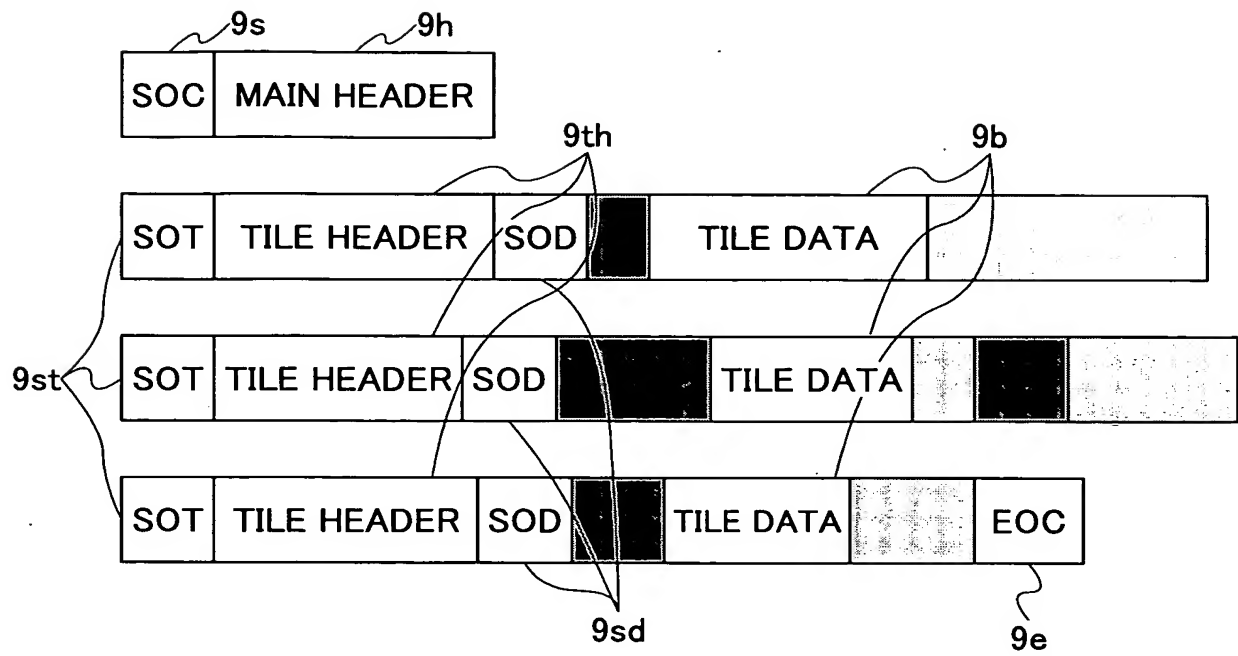


FIG.10

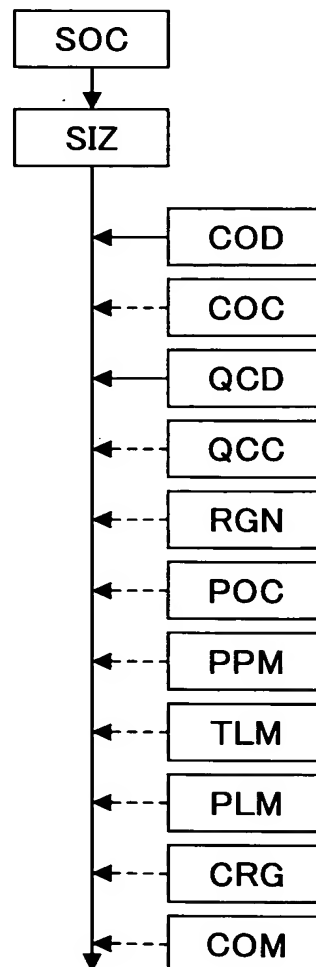


FIG.11

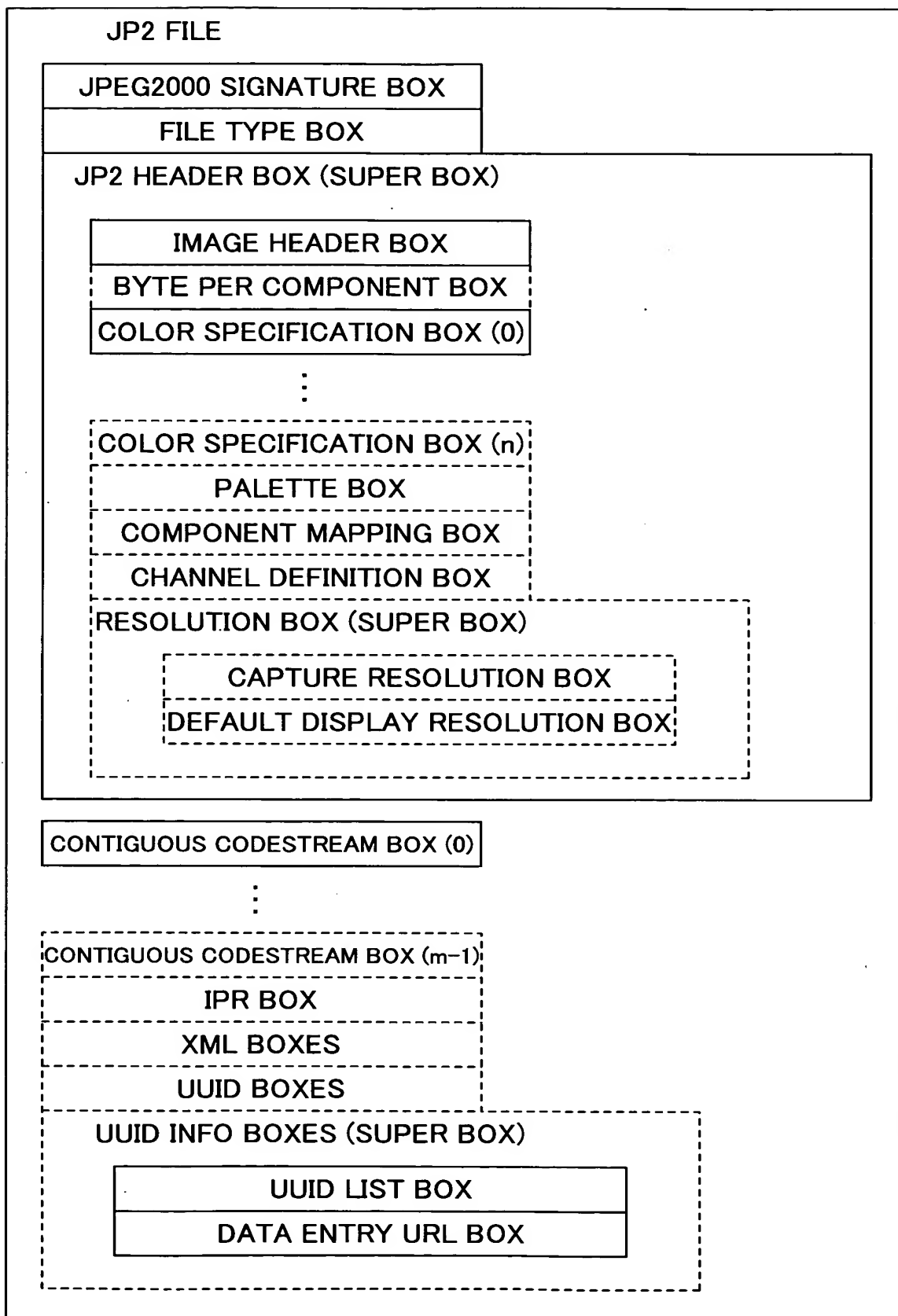


FIG.12

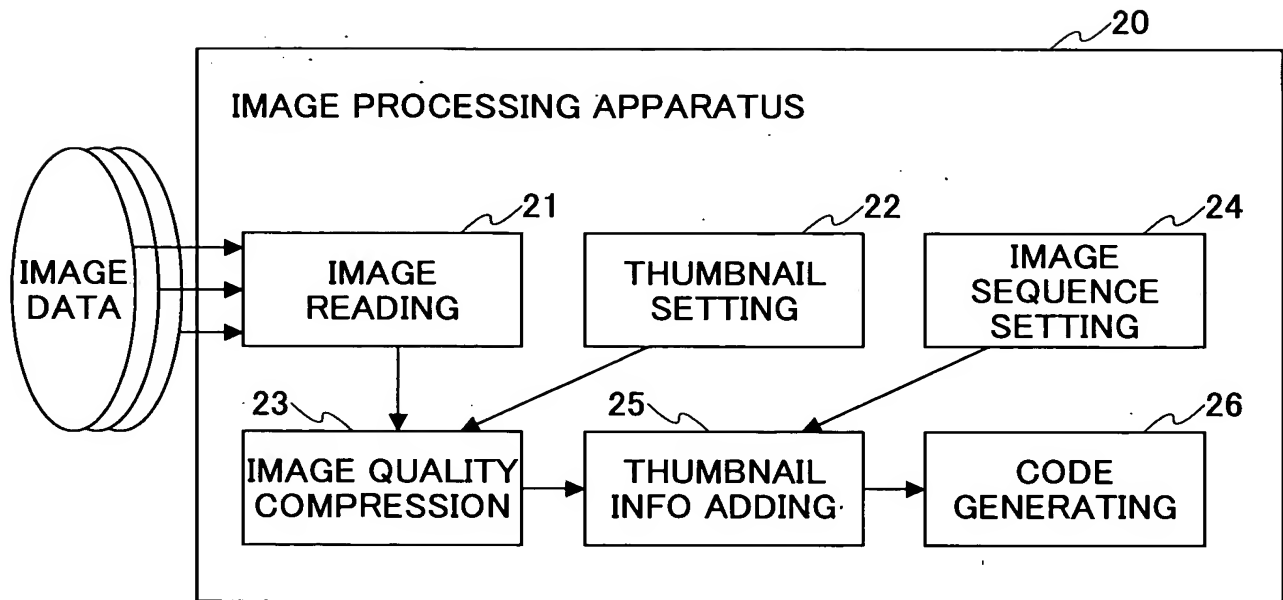
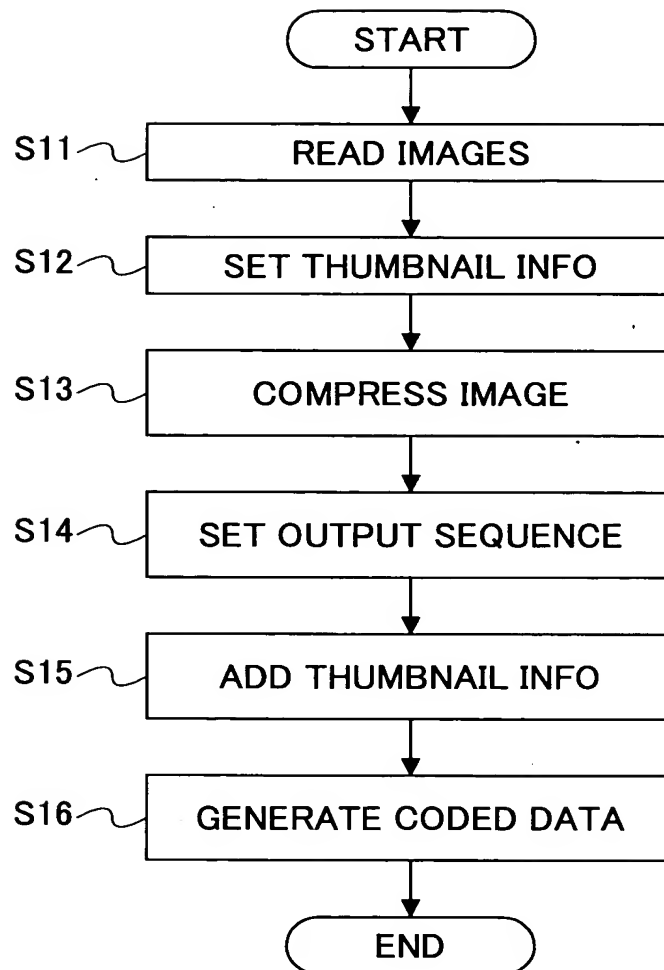


FIG.13



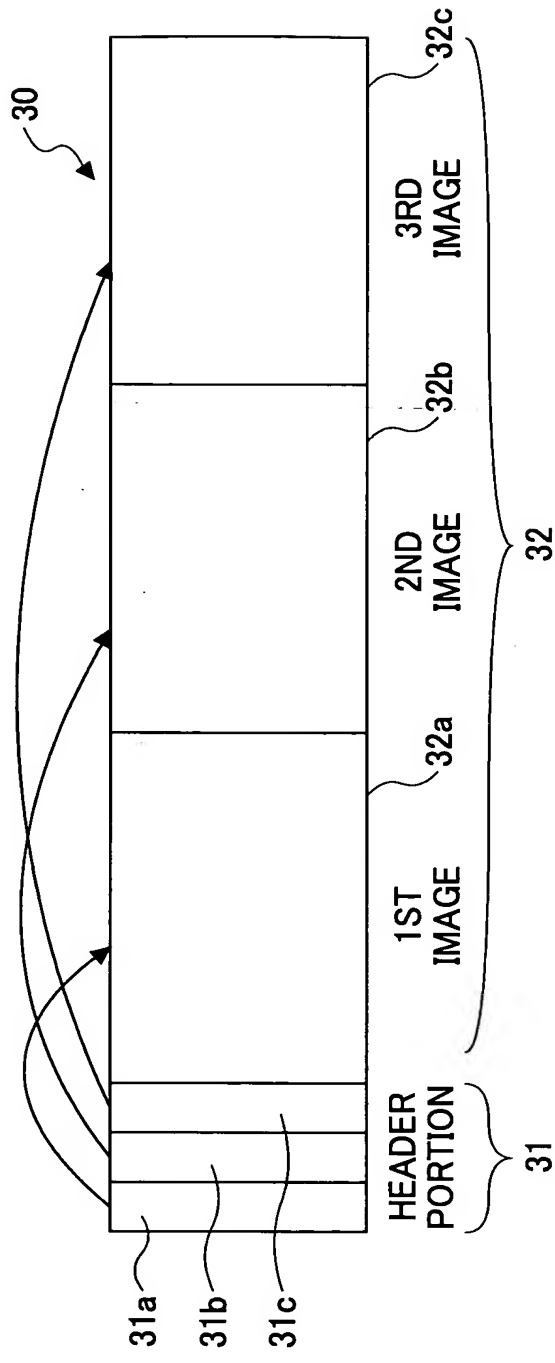


FIG.14A

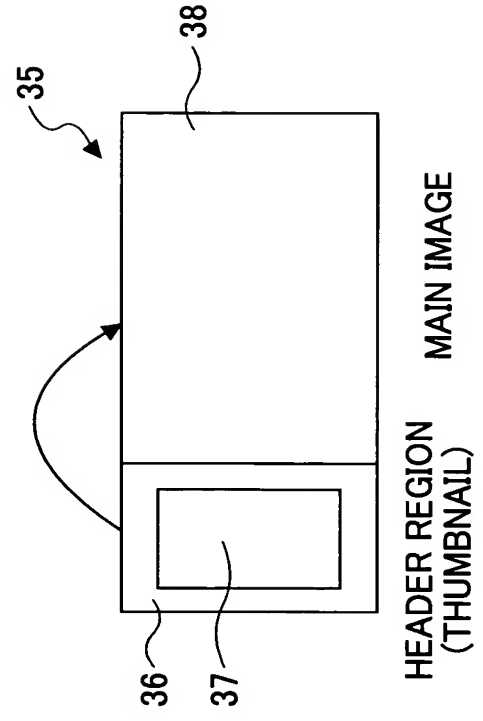


FIG.14B

FIG.15

40

41

42

TRANSMISSION LINE CAPACITY (bps)	PICTURE QUALITY LEVEL
1G	LAYER 0
100M	LAYER 2
10M	LAYER 4
8M	LAYER 5
1M	LAYER 7
5.6K	LAYER 10

FIG.16



FIG.17A



51

FIG.17B



52

FIG.17C



53

FIG.17D



54

FIG.18

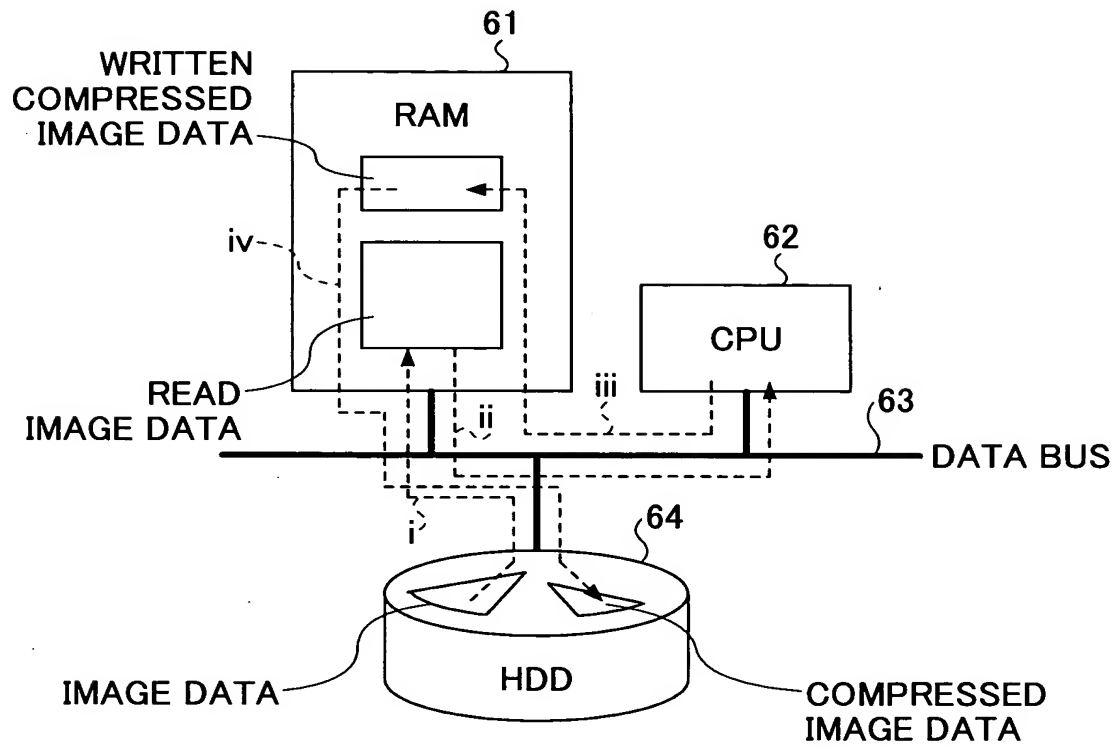


FIG.19

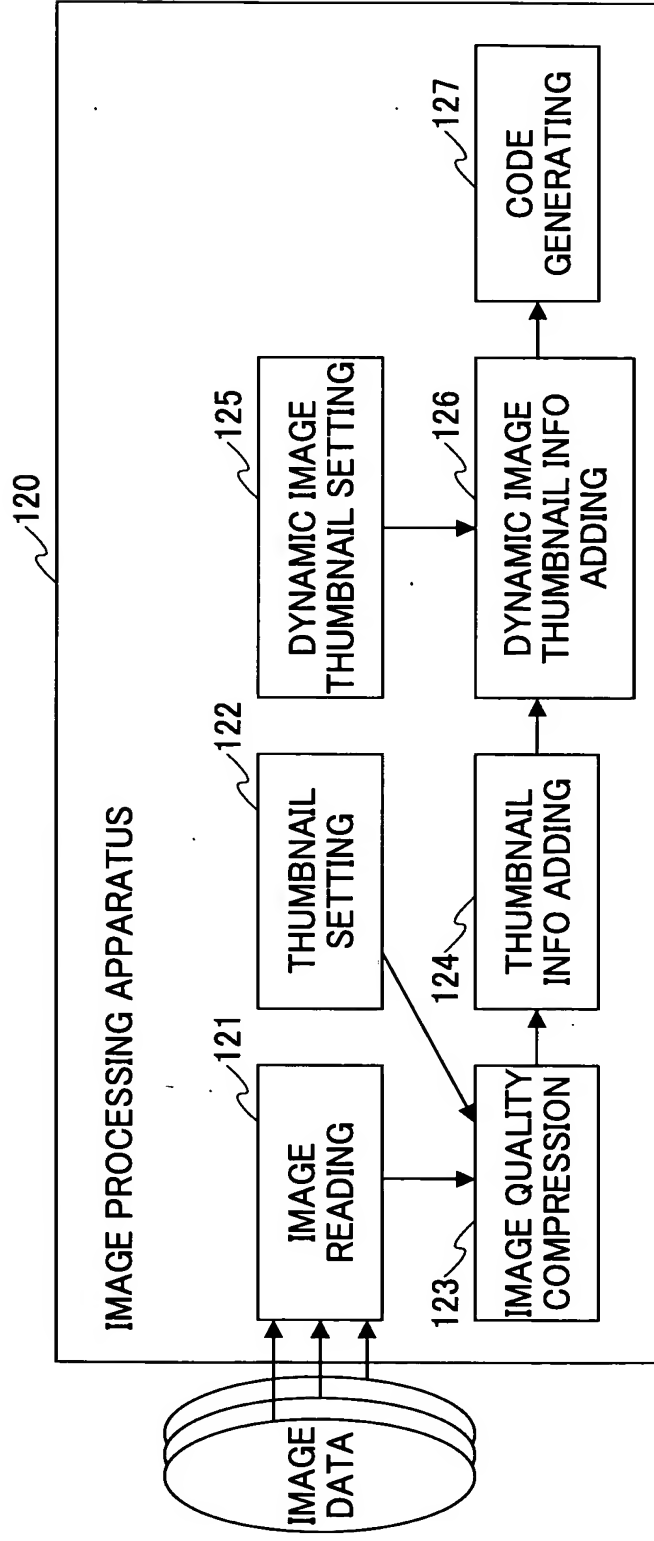


FIG.20

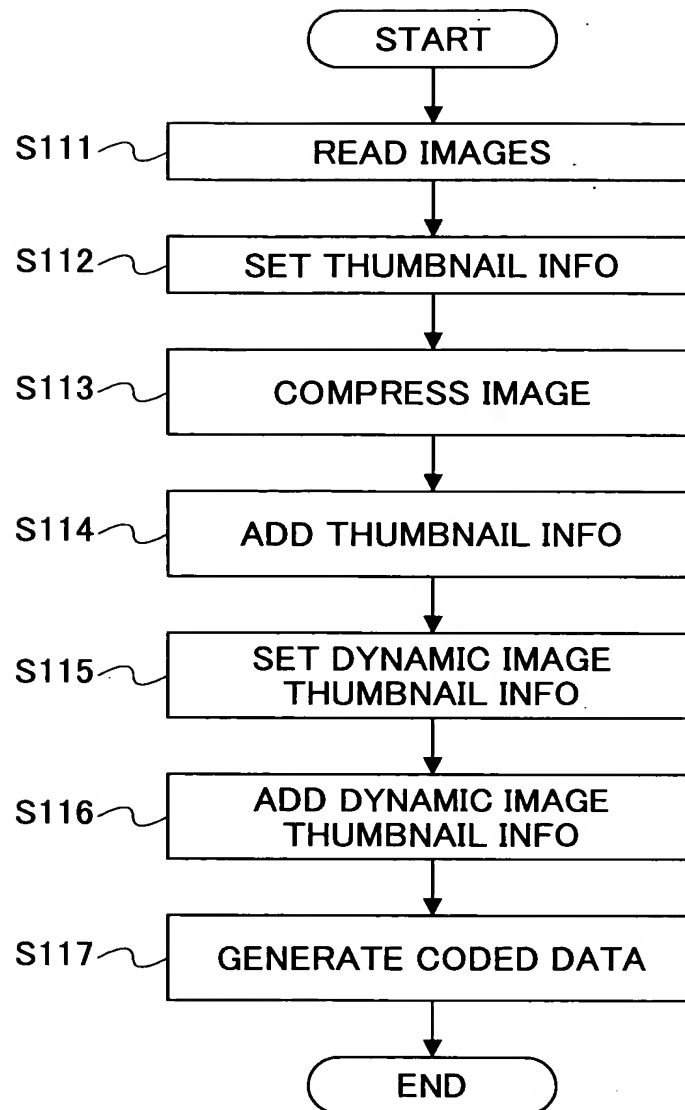


FIG.21

DISPLAY DEVICE (bps)	THUMBNAIL
DIGITAL CAMERA	CENTRAL TILE LAYER 3
IMAGE VIEWER SOFTWARE	DECOMPOSITION LEVEL 3 LAYER 5
PORTABLE TELEPHONE	DECOMPOSITION LEVEL 5
DIGITAL VIDEO CAMERA	FRAME NUMBER $2N+1$ DECOMPOSITION LEVEL 3
TELEVISION BROADCAST	ALL FRAMES TILES 6,7,10,11 DECOMPOSITION LEVEL 3
HI-VISION BROADCAST	ALL FRAMES DECOMPOSITION LEVEL 3

FIG.22

140



FIG.23A



141

FIG.23B



142

FIG.23C



143

FIG.23D



144

FIG.24

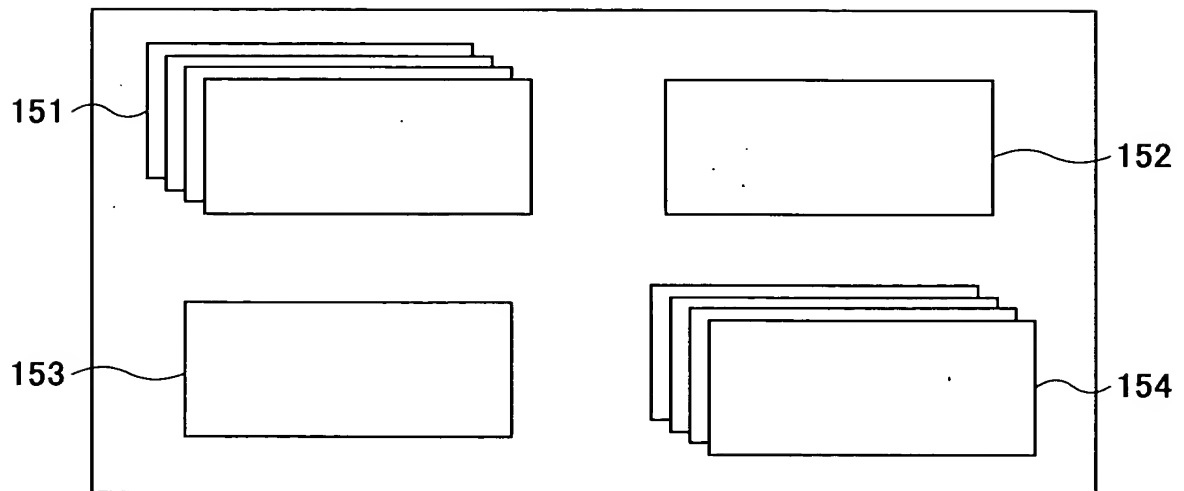


FIG.25

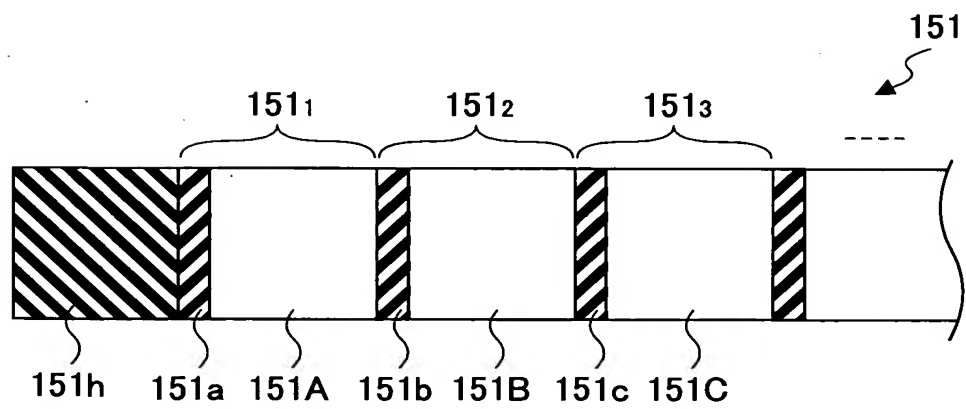


FIG.26

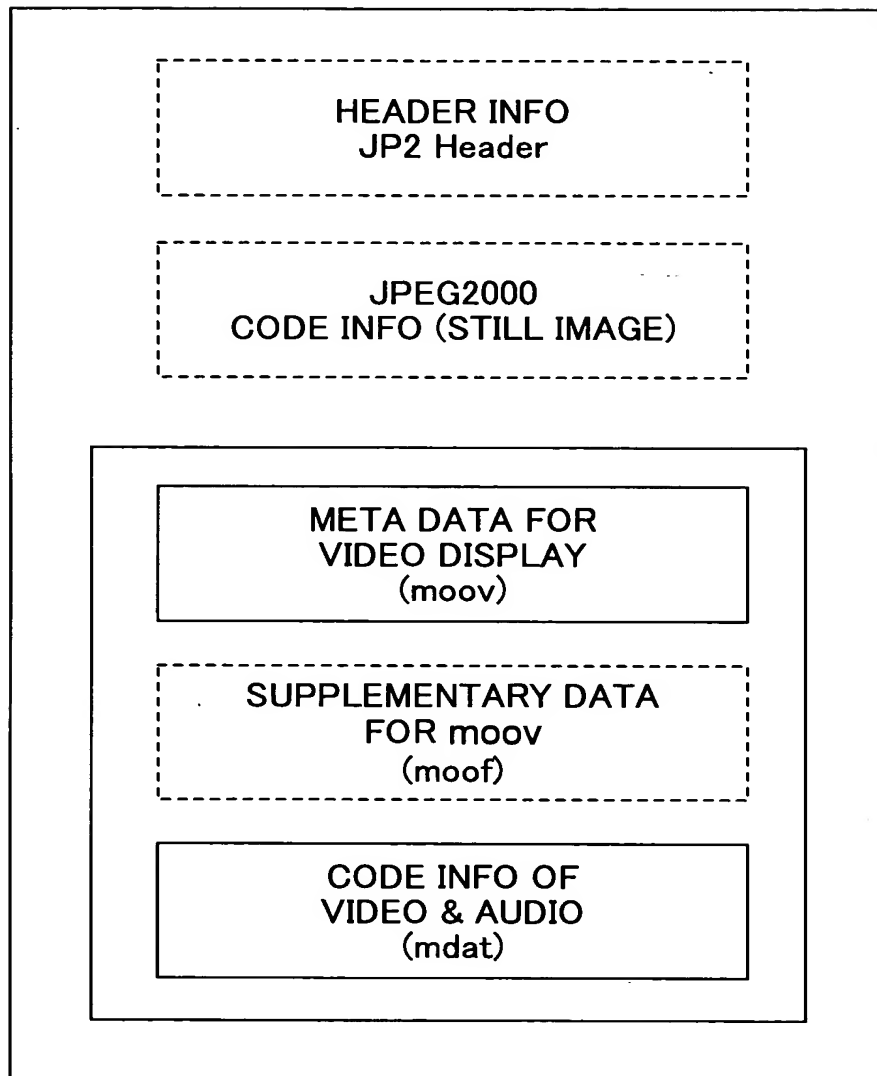


FIG.27

